

ABSTRACT OF THE DISCLOSURE

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A magnetic fluid bearing motor provided with a bearing assembly, the bearing assembly comprising a shaft, a substantially solid porous sleeve, magnetic fluid oil, and the like, wherein the shaft or the sleeve is formed of a ferromagnetic substance, and the surface of the shaft or the sleeve is locally magnetized such that the magnetization-varying portion is so arranged as to correspond to the bearing portion. Inside the porous sleeve is formed magnetic flux density gradient which is set at the maximum on the bearing surface, and thereby oil diluted with air bubbles is divided into dense and rarefied portions so as to retain a proper amount of oil with sufficiently high viscosity in the bearing portion. With the above stated structure, an inexpensive and long-wearing motor can be attained.